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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/788,425	03/01/2004	Shinji Ichikawa		4966
75	90 09/09/2005		EXAM	INER
George A. Loud, Esquire			CHARIOUI, MOHAMED	
BACON & THOMAS Fourth Floor			ART UNIT	PAPER NUMBER
625 Slaters Lane			2857	
Alexandria, VA 22314-1176			DATE MAILED: 09/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/788,425	ICHIKAWA ET AL.			
		Examiner	Art Unit			
		Mohamed Charioui	2857			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we tree to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 24 Ju	<u>une 2005</u> .				
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-6</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-6</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	ion Papers					
10)□	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acceeding a constant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Adda	44-1					
Attachment 1) Notic	τ(s) se of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
3) 🔲 Inforr Pape	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuroda et al. (U.S. 6,314,347). in view of Kolls (U.S. 6,853,894).

As per claim 1 and 6, Kuroda et al. teach traveling information storing means for storing travel data comprising at least vehicle speed and position of the vehicle (see col. 1, line 35 to col. 2, line 21); candidate traveling speed pattern generating means for generating plural candidate traveling speed patterns on the basis of only the travel data stored in the traveling information storing means (see col. 5, line 10-42 and col. 1, line 35 to col. 2, line 32); and estimated traveling speed pattern outputting means for extracting a candidate traveling speed pattern matching current travel environment data from among the generated traveling speed patterns and outputting an estimated traveling speed pattern for a route to be followed (see col. 1, lines 49-52 and col. 4, lines 55-67).

Kuroda et al. fail to teach that the travel environment data comprising at least date-and time and weather information as mutually associated data.

Kolls teaches this feature (see col. 16, lines 33-52; col. 19, lines 16-26; col. 19, line 62 to col. 20, line 7; and col. 36, line 66 to col. 37, line 9). It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate Kolls's teaching into Kuroda et al.'s invention because it would provide more information about the travel conditions. Therefore, travel speed pattern would be adequately estimated for an efficient and safe trip.

As per claim 2, Kuroda et al. further teach frequent route specifying means for specifying a frequently used route on the basis of the travel data (see col. 6, lines 46-58); and dividing means for dividing the frequently used route into short sections (see col. 1, lines 40-48), wherein the candidate traveling speed pattern generating means generates the candidate traveling speed pattern for each of the short sections (see col. 2, lines 22-32), and the estimated traveling speed pattern outputting means extracts a candidate traveling speed pattern for each of the short sections, and outputs an estimated traveling speed pattern for the specified frequently used route (see col. 1, lines 49-52).

As per claim 3, Kuroda et al. further teach that the candidate traveling speed pattern generating means classifies the travel data for each of the short sections on the basis of an average traveling speed for each of the short sections or a degree of similarity among traveling speed patterns for each of the short sections, and generates a traveling speed pattern representing a set of the classified travel data for each of the short sections as the candidate traveling speed pattern (see col. 6, line 65 to col. 7, line 34).

As per claim 4, Kuroda et al. further teach that estimated traveling speed pattern

outputting means extracts travel data matching current traveling environment data for

each of the short sections, extracts a candidate traveling speed pattern representing a

set to which a greatest number of the travel data belong, and outputs the estimated

traveling speed pattern (see col. 6, line 65 to col. 7, line 34 and col. 4, lines 55-67).

As per claim 5, Kuroda et al. further teach that the travel environment data

include date, hour, day of the week (see col. 6, lines 46-58), information on operation of

on-board equipments including at least a wiper and a headlight, and sensing information

obtained from on-board sensors including a raindrop sensor (see col. 1, lines 21-30 and

col. 4, lines 20-25).

Response to Arguments

2. Applicant's arguments with respect to claims 1-6 have been considered but are

moot in view of the new ground(s) of rejection.

Applicant argues that Kuroda et al. disclose a single vehicle speed pattern is

generated for a given stretch of road, while the present invention discloses a plural

number of such patterns.

The examiner believes that Kuroda et al. select a speed pattern from a plurality

of speed patterns in every section of the road (see col. 5, lines 13-43).

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Contact information

Any inquiry concerning this communication or earlier communications from the 4.

examiner should be directed to Mohamed Charioui whose telephone number is (571)

272-2213. The examiner can normally be reached Monday through Friday, from 9 am

to 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marc S Hoff can be reached on (571) 272-2216. The fax phone number for

the organization where this application or proceeding is assigned is (571) 273-8300.

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Mohamed Charioui

8/30/05

MARC S. HOFF
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